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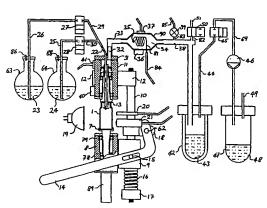
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(54) Title: SOLVENT EVAPORATOR



(57) Abstract: An apparatus for concentrating solutions in a vaporising receptacle (1) is provided wherein the receptacle (1) has a mouth (3), and the axis of the receptacle is perpendicular to the mouth. The apparatus comprises: support means (7) for supporting the vaporising receptacle with the mouth of the receptacle uppermost and the axis substantially vertical; rotation means (89) being operable to rotate the vaporising receptacle at high speed substantially about the axis; means (13) for sealing the vaporising receptacle to the apparatus; a vacuum pump (46) to reduce the pressure within the vaporising receptacle; means (22) for dispensing into the vaporising receptacle a solution to be concentrated; sensing means (21) to measure the temperature of the solution within the vaporising receptacle; heating means (19, 99) to apply heat to the solution within the vaporising receptacle; a control and regulating unit (75) for controlling or regulating at least one of said rotation means, said vacuum pump, said dispensing means, said sensing means and said heating means. The invention allows low pressure evaporation in regularly sized and shaped receptacles without bumping, and is also easy to use. A corresponding method is provided.

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